## **ELABORATE**





# **Water Erosion**

#### **GROUPING**

small groups

## **MATERIALS PER GROUP**

- tray
- soil
- cup of water

## **OBJECTIVES**

Children will explain how water changes land.

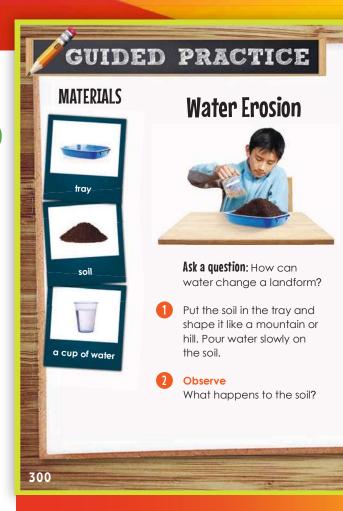
## **TEACHER BACKGROUND**

The energy of the moving water can push bits of rock downstream. It can also make grooves into the banks of streams with weathered rocks. As the water moves faster, its energy is high and can push bigger rocks. As the water moves more slowly, the energy is low and water can only push small grains of sand. Ocean waves can carry away bits of rocks.



## **SAFETY PRECAUTIONS**

- Ask children to wear an apron, goggles, and gloves during the practice.
- Ask children to wash their hands after the practice.



# **SCIENCE SKILLS**

By the end of this practice, children will use the following science skills:

- Observe
- Record data
- Draw a conclusion



## **MULTIPLE INTELLIGENCE ACTIVITY**

Use the Multiple Intelligence Activity for this lesson to enrich and engage the different learning styles of each student.

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|------------|--|-----|
|            | Record your observations.  |     |
|            |  |     |
|            |  |     |
|            | Draw a conclusion.   |     |
|            | How did water change the soil?   |     |
|            |  |     |
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# **EXPECTED RESULTS**

The children will observe that when they are pouring water on the mud, the water pushes the mud away.

## **EXPLANATION**

The energy of the moving water causes the mud to move away.

## **CONCLUSION**

Water can erode land.

## **STEPS**

- 1 Prepare the workstations with the materials and have children work in small groups. Guide the groups to make a pile of dirt on the tray. Encourage children to pour water slowly on the pile of dirt.
- Observe. Guide groups to observe what happens to the dirt after the water is poured on it.
- Record. Have groups record their observations. They can draw pictures or write sentences.

  Possible answer: The water pushed the mud away.

  Drawings will vary. Accept all reasonable drawings.
- **Draw a conclusion.** Have groups work together to answer the question.

Possible answer: It eroded the dirt, just like water can erode land.